



Revision: A

chroma+scan 3x00 Release Notes

Version 4.11.12.32 (previous version: 4.11.12.23)

New Features:

Expanded Encoder Message

The *Encoder Messages* found in *Web* and *Detection Mode* now contains two new fields: *encoderIndex*, the encoder index, and *IOState* which contains the input states (bits 0 to 3 of the *IOState* are the states of inputs 0 to 3). This expanded message is used by setting the *Encoder Message Version* parameter (*EncoderMsgVersion* in the *Setup* section of *Settings.xml*) to 1. Setting the version to 0 results in the old message which does not contain these new fields; version 0 is included for backwards compatibility and might be removed in the future.

Compatibility rules: If sensors are on older firmware and the station is on the new firmware, version 1 of the encoder message will contain k64s NULL (-9223372036854775807) for the encoder index and IO state history. If sensors are on the new firmware and the station is on older firmware, version 0 will always be used by default.

Expanded Free Profile Message Attributes

The *Free Mode Profile* message attributes now contains two new fields: *encoderIndex*, the encoder index, and *IOState* which contains the input states (bits 0 to 3 of the *IOState* are the states of inputs 0 to 3). This expanded message is used by setting the *Encoder Message Version* parameter (*EncoderMsgVersion* in the *Setup* section of *Settings.xml*) to 1. Setting the version to 0 results in the old message which does not contain these new fields; version 0 is included for backwards compatibility and might be removed in the future.

Compatibility rules: If sensors are on older firmware and the station is on the new firmware, version 1 of the free profile message attributes will contain k64s NULL (-9223372036854775807) for the encoder index and IO state. If sensors are on the new firmware and the station is on older firmware, version 0 will always be used by default.

New Header Definitions

zIndicators.h now includes these definitions:

zHEALTH_1X_SERVER_CPU_CURRENT is the current server CPU level, *zHEALTH_1X_SERVER_CPU_MINIMUM* is the minimum server CPU level, and *zHEALTH_1X_SERVER_CPU_MAXIMUM* is the maximum server CPU level.

ChromaScan3x00.h now includes these definitions:

CS_3X00_WEB_PROFILE_ATTR_Y_LOC is the *Web Mode Profile Message* index for the y-location (measured in mils), *CS_3X00_WEB_VISION_ATTR_Y_LOC* is the *Web Mode Vision Message* index for the y-location, and *CS_3X00_WEB_TRACHEID_ATTR_Y_LOC* is the *Web Mode Tracheid Message* index for the y-location.

Definitions have also been added for accessing the new fields and attributes in the expanded encoder history message and the free profile message attributes.





Revision: A

Changes:

Link Speed

Previously, the '*Link Capacity*' parameter was set in *kServer.xml* and would be overwritten after upgrades. It has now been moved to the *Setup* section of *Settings.xml* and will persist after upgrades. The default value is 1000 (mbps).

FireSync 4 driver certification

Previously the FireSync 4 driver was signed by the SHA-1 certificate which Microsoft may remove support for in the near future. The driver is now also signed by the SHA-256 certificate.

Fixes:

System backups contain invalid timestamp

Previously, the *Server->Backup* command in kClient would produce a backup containing an invalid timestamp. This has been fixed.

Removed internal debug feature

An internal debug logging feature was removed to avoid potential corruption during abnormal operating conditions.

New sensor health indicator for encoder value

Previously, the encoder value was not available in sensor health data unless a master was connected to the sensor network. A new sensor indicator, 6028, has now been added to report the encoder value regardless of whether a master is connected.

